herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiatio of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to the amendment received on 09/22/08. 2. ☑ The allowed claim(s) is/are 1-10. 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No		Application No.	Applicant(s)
Notice of Allowability Examiner Yolanda L. Wilson 2113 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address. All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiation of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. ☑ This communication is responsive to the amendment received on 09/22/06. 2. ☑ The allowed claim(s) is/are 1.10. 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S. C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. ☐ 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies not received. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Faiture to limely comply will result in ABANDONMENT of this application. THIS THREE/MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) winy the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheet	Notice of Allowability	10/729,272	SWOBODA ET AL.
The MAILING DATE of this communication appears on the cover sheet with the correspondence address- All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included reverith for proviously male(a), a Notice of Notwance (PTOL-85) or other apportate communication with be mid- reverth for proviously male(a), a Notice of Notwance (PTOL-85) or other apportate communication with or mid- reversity for proviously male(a), a Notice of Oration to the Office or upon petition by the applicant. See 37 CFR 1.313 and MFPE 1308. 1. □ This communication is responsive to the amendment received on 09/22/06. 2. □ The allowed claim(s) is/are 1-10. 3. □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-{d} or (f). a) □ All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have been received in Application No. 3. □ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies not received: — Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.** 4. □ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. □ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMATION to Note the Note of Draftperson's Patent Drawing Review (PTO-948) attached Examiner's comment reparding Requirement for Deposit of Biological Material*			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address- All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included reverith for proviously male(a), a Notice of Notwance (PTOL-85) or other apportate communication with be mid- reverth for proviously male(a), a Notice of Notwance (PTOL-85) or other apportate communication with or mid- reversity for proviously male(a), a Notice of Oration to the Office or upon petition by the applicant. See 37 CFR 1.313 and MFPE 1308. 1. □ This communication is responsive to the amendment received on 09/22/06. 2. □ The allowed claim(s) is/are 1-10. 3. □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-{d} or (f). a) □ All b) □ Some* c) □ None of the: 1. □ Certified copies of the priority documents have been received in Application No. 3. □ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). **Certified copies not received: — Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.** 4. □ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. □ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMATION to Note the Note of Draftperson's Patent Drawing Review (PTO-948) attached Examiner's comment reparding Requirement for Deposit of Biological Material*		Yolanda I Wilson	2113
2. ☑ The allowed claim(s) is/are 1-10 3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I	S (OR REMAINS) CLOSED in 5) or other appropriate commu RIGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
3.	1. $igtimes$ This communication is responsive to $the amendment rec$	eived on 09/22/06.	
a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (c) DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of Terferences Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Paper No./Mail Date 1. Szaminer's Comment Regarding Requirement for Deposit of Biological Material.	2. 🗵 The allowed claim(s) is/are <u>1-10</u> .		
2. ☐ Certified copies of the priority documents have been received in Application No	a) ☐ All b) ☐ Some* c) ☐ None of the:		or (f).
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	·	•	NIe
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. ☐ Notice of Paftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 2. ☐ Notice of Comment Regarding Requirement for Deposit of Biological Material 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material		•	
* Certified copies not received:		ocuments have been received	in this hational stage application from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) and including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) and including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date (b) and including changes required by the attached Examiner's Comment sheet(s) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Paper No./Mail Date 2. Examiner's Comment Regarding Requirement for Deposit of Biological Material			·
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) nicuding changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be sub-	MENT of this application. mitted. Note the attached EXA	MINER'S AMENDMENT or NOTICE OF
(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date Paper No./Mail Date 1. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<u> </u>		
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material			(PTO-948) attached
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment Paper No./Mail Date 8. ☐ Examiner's Statement of Reasons for Allowance of Biological Material			(170 040) allastica
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. Examiner's Statement of Reasons for Allowance of Biological Material	(b) ☐ including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 5. ☐ Notice of Informal Patent Application 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 8. ☒ Examiner's Statement of Reasons for Allowance	Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFI	e drawings in the front (not the back) of R 1.121(d).
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Examiner's Amendment/Comment Examiner's Statement of Reasons for Allowance of Biological Material 			
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Examiner's Amendment/Comment Examiner's Statement of Reasons for Allowance of Biological Material 			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 8. ☒ Examiner's Statement of Reasons for Allowance		5 □ Notice of Inf	, formal Patent Application
Paper No./Mail Date Information Disclosure Statements (PTO/SB/08),	•		• •
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. ☑ Examiner's Statement of Reasons for Allowance of Biological Material		Paper No./	
 Examiner's Comment Regarding Requirement for Deposit Examiner's Statement of Reasons for Allowance of Biological Material 	Paper No./Mail Date		Amenumen/Comment
9. Other	 Examiner's Comment Regarding Requirement for Deposit 		Statement of Reasons for Allowance
		9. 🗌 Other	.

Application/Control Number: 10/729,272 Page 2

Art Unit: 2113

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-10 are allowed.
- The following is an examiner's statement of reasons for allowance: The primary 2.. reason for the allowance of claims 1-3 is the inclusion of the limitation: 'the program counter trace apparatus is responsive to plurality of simultaneous event signals, the program counter trace apparatus generating multiple-event sync marker signal group identifying the occurrence of the plurality of simultaneous events and relating the event signals to the timing trace stream and the program execution'. The primary reason for the allowance of claims 4-5 is the inclusion of the limitation: 'the program counter trace stream, including a marker signal group indicating a simultaneous occurrence of a plurality of event signals and relating the occurrence to the data trace stream, to the timing trace stream, and to the program execution'. The primary reason for the allowance of claim 6 is the inclusion of the limitation: 'indicia of the simultaneous occurrence of a plurality of event signals'. The primary reason for the allowance of claims 7-10 is the inclusion of the limitation: 'the decoder unit generating a second control signal when multiple simultaneous events are identified; a gate unit responsive to the control signal, the gate unit transmitting processor signals applied thereto to the storage unit for storage at defined locations, the signals stored in the storage unit forming a portion of a multiple-event sync marker; a multiple-event gate unit responsive to the second control signal for storing indicia of additional event signals in the storage unit; and a FIFO unit coupled to the storage unit, the FIFO unit receiving the multiple-

Art Unit: 2113

event sync marker when the multiple-event sync marker has been assembled, the FIFO unit transferring the multiple-event sync marker to the host processing unit'.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Specification

3. The Examiner acknowledges the amending of the specification.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yolanda L. Wilson whose telephone number is (571) 272-3653. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Beausoliel can be reached on (571) 272-3645. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/729,272

Art Unit: 2113

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Yolanda L Wilson

Examiner Art Unit 2113